

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, September 6, 2002

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Greg Dallum, a Laboratory scientist, used a Lab-developed breathing detector to search for World Trade Center survivors in the days after Sept. 11's terrorist attacks.

Lab to pay tribute to Sept. 11

The Laboratory will hold a special tribute to honor the one-year anniversary of Sept. 11, 2001, and the events that followed, beginning at 8:30 a.m. Wednesday.

The tribute will honor employees who were asked to assist in rescue, counterterrorism and safeguarding efforts in New York, Washington, D.C. and other areas around the world.

Director Michael Anastasio will host the ceremonies, which will begin promptly at 8:30 a.m. in the Bldg. 123 auditorium. Anyone arriving after that may be asked to wait outside the door so as not to interrupt the various ceremonies that will take place.

See **TRIBUTE**, page 8

Geochemist helps pinpoint age of the oldest objects in the solar system

By Anne M. Stark

NEWSLINE STAFF WRITER

A Laboratory geochemist, teaming with researchers from the Royal Ontario Museum, the University of Hawaii and Moscow State University, has accurately dated Calcium Aluminum-rich Inclusions (CAIs), the oldest objects in our solar system, to be 4.57 billion years old.

In addition, the team has determined that chondrules, another of the earliest objects in the solar system, are 2 to 3 million years younger than CAIs.

The findings, by Ian Hutcheon of LLNL, Yuri Amelin of the Royal Ontario Museum, Alexander Krot of the University of Hawaii and Alexander Ulyanov of Moscow State University, will be published in the Sept. 6 edition of *Science*. The article is titled "Pb Isotopic Ages of Chondrules and Ca-Al Rich Inclusions."

Using mass spectrometers to study CAIs and chondrules found in chondritic meteorites, the team was able to determine the ages of the objects by measuring the decay of uranium 238, which is found in both objects and decays into lead. Using an ion microprobe, Hutcheon dated CAIs and chondrules by detecting the decay of aluminum 26 — also found in both objects — into magnesium 26.

By comparing the lead and magnesium isotope contents in the CAIs and chondrules, the team determined how old the objects are. Aluminum 26 decays much faster than uranium, and these measurements enabled the team to

See **SOLAR SYSTEM**, page 8

Anastasio says Lab ready to seize opportunities, take on challenges of future

NEWSLINE STAFF REPORT

"These are exciting times at the Lab, full of opportunities and challenges. We are poised to take on the challenges; we must seize the opportunities."

That was the message Director Michael Anastasio gave to employees in his second Labwide speech since he became director two months ago. The speech, given Aug. 23, was also broadcast live on Lab television — and for the first time, on streaming video over the Internet.

Anastasio began his speech by thanking employees who participated in meetings with him, and the department heads and key managers who

See **ANASTASIO**, page 7

Science stands out during anniversary week

By Anne M. Stark

NEWSLINE STAFF WRITER

Some of the standouts of science take center stage Tuesday, Sept. 17, when Science Day returns to the Lab.

This year's theme is "Science Day — Our Heritage, Our Future," featuring a series of "then & now" presentations and more than 50 posters that will span the various areas of science and technology the Lab has developed.

"This will give people broad exposure to the scientific thrust areas of the Lab, a better understanding of where the Lab started and

Blast to the past on '1952 Day'

Learn what it was like when Lawrence Livermore opened its doors as the Lab celebrates "1952 Day," at noon on Monday, Sept.

16, in the Bldg. 123 auditorium.

A panel featuring a number of the Lab's

See **1952**, page 8

how far it has come and what our major initiatives are," said Rokaya Al-Ayat, director of the Laboratory Science and Technology Office and the key organizer of Science Day.

See **SCIENCE DAY**, page 8



1987: Unveiling the code

— Page 3



One for the books

— Page 4



Ergo expertise

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday
7

There is a **scheduled power outage** from 7 a.m. Saturday through 3 p.m. Sunday in the following locations: Bldgs. 334, 335, 341, 343 and 345; and trailer 3427. Contact: Mark Cardoza, 3-0490.

Sunday
8

Ravenswood Historic Site is hosting its third annual **Art Show** 11 a.m. to 4 p.m. The Art Show, "Impressions of Ravenswood", will be held in conjunction with a Ravenswood open house featuring tours of the historic estate led by docents in 1890s costumes and a Victorian Croquet demonstration. Admission is free.

Monday
9

FileMaker representatives will be at the Lab for a product demonstration from 9:30-11:30 a.m. in Bldg. 361 auditorium. New FileMaker users will see how they can create databases to manage contacts, track projects or inventory assets. FileMaker pros will see new features, including how to utilize the built-in XML capabilities to import data from remote sources. Contact: Candace Gittins, 4-4952.

Tuesday
10

LLLWA (Woman's Association) is hosting a two-part **"Money Management For Women"** seminar, featuring Nona Belous, financial advisor at Waddell & Reed Financial Services. The two-part workshop will be offered today and Thursday, from noon-1 p.m. in Bldg. 571, room 2301. Topics include long-term care and the myth of government assistance. The seminar is free, but space is limited to the first 35 respondents. RSVP to Dawn Cunningham at cunningham25@llnl.gov or 3-6034.

Thursday
12

LLESA will hold its annual **Vintage Vehicle Show** in the Z-1 parking lot (near Bldg. 111) 11 a.m. until 1 p.m.



Marina Gonzalez from the Employee & Organization Development Division will explain how the **Laboratory Employee Application Process (LEAP)** works. The presentation will be at noon Sept. 19, in Bldg. 571, room 1301.

...

A representative from **Fidelity Investments** will be on-site to meet with employees on Sept. 18-19. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. Fidelity's program offers 403(b) participants more than 140 investment portfolios in five mutual fund categories. If you would like to learn more about Fidelity's plans, call 1-800-642-7131 to set up an appointment. When calling, be sure to specify you are an LLNL employee.

A new look



Work is under way in the Lab Visitors Center to remodel and update the displays. The newly remodeled center will be unveiled during Community Day on Sept. 18 and will be open to Lab employees and their families during Family Days, Sept. 21-22.

On the road

Karen Kiernan-Rodriguez of the Lab Public Affairs Office shows the 50th anniversary traveling exhibit that has been on the road much of the year. It was displayed in DOE headquarters in Washington D.C., in Pleasanton at the library and at the Alameda County Fair, and is currently en route to the UC Office of the President in Oakland. It is slated to go to the new Livermore City Hall building when it opens in October.

DON JOHNSTON/NEWSLINE



Employees gearing up for breast cancer fund-raising walk

Plant Engineering employees Christy Kato-Baxter and Vicki Cunniffe are leading the charge to recruit walkers and money for the American Cancer Society's 5th annual Making Strides for Breast Cancer walk on Sunday, Oct. 27, in Golden Gate Park.

Join the walk in the park or sponsor someone who's walking. You don't have to do the whole five miles, just whatever you can do.

Registration and the start of the walk begin at 8 a.m. to 10 a.m. in Speedway Meadow at Golden Gate

Park. Registration/pledge forms are available around the Lab or by calling Cunniffe, 2-9431.

If you want to be a sponsor, send your check to Christy Kato-Baxter (L-654) or Vicki Cunniffe (L-657). Make checks payable to American Cancer Society with your name, mailing address, city, zip, and phone number. Deadline for donations for sponsoring people in the walk is Oct. 18.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Managing editor: Lynda Seaver, 3-3103

Contributing writers: Don Johnston, 3-4902; Elizabeth Rajs, 4-5806; David Schwogler, 2-6900; Anne Stark, 2-9799; Steve Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>

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Tri Valley Cares to host brown bag seminar

Tri-Valley Cares will present a brown bag seminar on the federal compensation program for nuclear weapons workers, Department of Energy employees and contractors who may be suffering from radiogenic cancers, beryllium diseases and other illnesses as a result of on the job exposures.

The seminar takes place at noon Thursday, Sept. 12, in the Visitors Center Auditorium, Trailer 6525. Richard Miller and Tom Carpenter from the Government Accountability Project will talk about the compensation program, eligibility requirements and how to file paperwork.

1952 – 2002
MAKING HISTORY, MAKING A DIFFERENCE



Deciphering the human genetic code

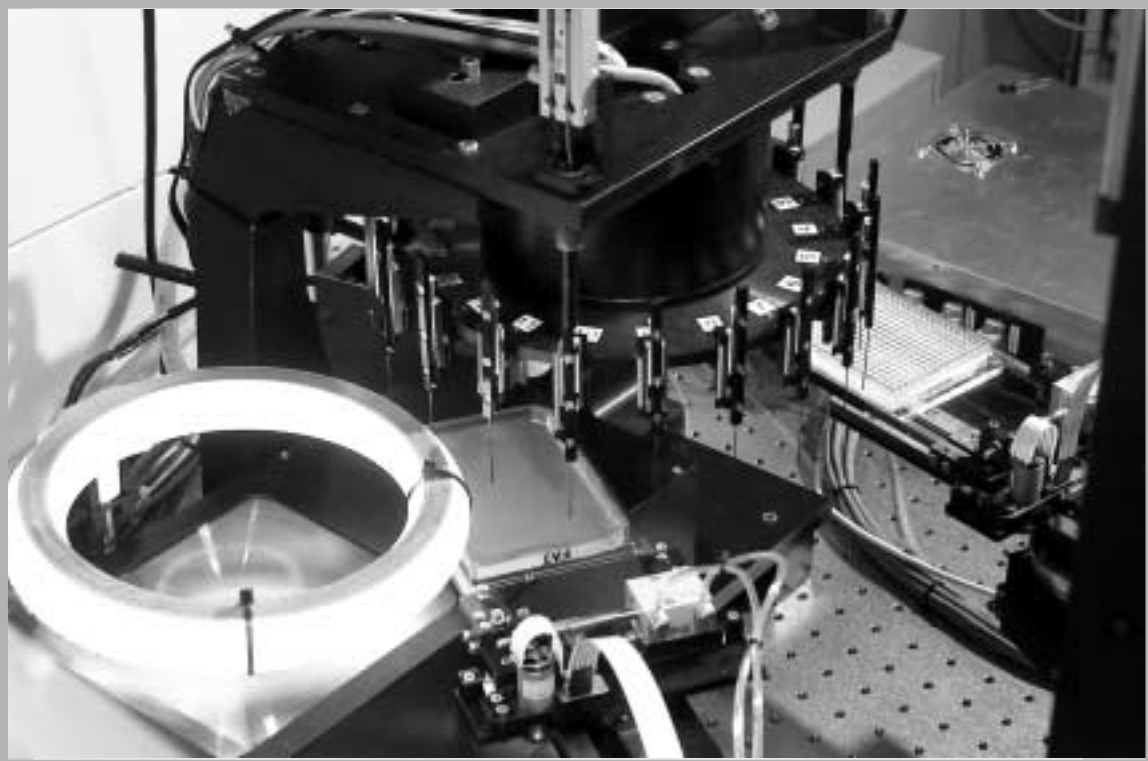
This is an ongoing feature highlighting the Lab’s 50-year history. This week we take a look at the year 1987.

In 1987, Livermore biomedical researchers began studying chromosome 19. At the same time Los Alamos began work on chromosome 16 while Lawrence Berkeley was considering decoding chromosome 5. Work had begun in what grew to be an international effort to decode the human genome.

The Laboratory’s work on chromosome 19 dates to a project that examined three genes on chromosome 19 involved in the repair of damaged DNA. By 1984, Livermore and Los Alamos were working together to build human chromosome-specific gene libraries. Advanced chromosome-sorting capabilities, essential to the genome initiative, had been developed at both laboratories.

DOE was the first federal agency to launch a major initiative to decode the human genetic code. In 1990, DOE joined with the National Institutes of Health and other laboratories around the world to kick off the Human Genome Project, the largest biological research project ever undertaken. This vast team completed a rough draft of the sequence of the entire 3 billion base pairs of our DNA in 2001.

Since the completion of the draft human genome, DOE’s Joint Genome Institute (JGI), a sequencing production facility in Walnut Creek, California, has gone on to sequence mouse DNA, many microbes, and other organisms. The mouse is especially interesting because about 99 percent of its genes are similar to our own.



Colonies of cells containing human DNA are selected from a cell culture plate during the sequencing process at the Joint Genome Institute.

1987 HUMAN GENOME

Around the Lab

X-Ray laser

During the late 1980s, the Lab developed a powerful, compact X-Ray laser. Related technological breakthroughs hold the promise of X-ray microscopes for high-resolution imaging of living cells, X-Ray lithography for producing the next generation of integrated circuits, and high-density sensors for exploring stellar-like matter in the laboratory.



Around the nation

- It is the age of music videos in rock music; Michael Jackson, Whitney Houston, U2, and Pink Floyd all release new albums.

Around the world

- U.S.-U.S.S.R. sign Intermediate-range Nuclear Force (INF) Treaty
- Gorbachev launches perestroika and glasnost
- World stock market crash

in other
NEWS

Other news around
the Lab, the nation
and the world.

For more of the Lab’s rich history, check out the Timeline, located at: <http://www.llnl.gov/timeline/>

Events, activities, escorts needed for Family Open House

Family Days listings due to *Newsline*

Family Days are coming to the Laboratory, Sept. 21–22. For the weekend, in honor of the Lab’s 50th anniversary, *Newsline* will publish a special edition highlighting everything your family and friends will be able to see and do throughout the two days.

Each organization needs to send its “what’s open” events and activities, along with any photos it would like to include to newsline@llnl.gov. Listings should be in a Word document; photos should be in a high-resolution JPEG format, preferably color.

Photos can also be mailed to *Newsline*, L-797. All listings are due Friday. If you have any questions, contact Lynda Seaver at 3-3103.

Bike round-up under way

Lab bikes are now being collected in order to prepare for Family Open House, Sept. 21–22. All bikes must be collected one week prior to Family Open House. Personal and program bikes must be locked up during that weekend.

Fleet Management will round up bikes at a slow rate, with most of the bikes collected toward the end of the next two weeks. During that time, Fleet Management will inventory the bikes and perform inspections. Employees are requested to

park the bikes in areas that can be clearly seen by the bike shop mechanics for pick-up.

The bikes will be returned after Family Open House.

Escorts needed for Family Open House

Non-exempt employees are needed to work as escorts, or help with check-in and other services during Family Open House, Sept. 21 and 22. Employees must be L- or Q-cleared; they will be paid for their time. Employees may elect to work Sept. 21, 22 or both. To volunteer, contact Jolene Inokuchi at inokuchi1@llnl.gov. For information, call 3-4616.



NEWS YOU CAN USE

Hot off the press



JULIE KORHUMMEL/NEWSLINE

This week Director Michael Anastasio received the Lab's two 50th anniversary celebration books, *Fifty Years of Stories* and *Fifty Years of Accomplishments*. The projects' editorial and design teams included, from left, Dan Moore, Steve Azevedo, Pam MacGregor, George Kitri-nos, Tom Isaacs, Laurie Powers and Paul L. Chrzanowski. Copies of both books will be mailed to all employees over the next two weeks.



Community
Lecture
Series

Lawrence Livermore National Laboratory
presents...

Spotlight on Science

Nuclear Testing: A History Told in Images

By Peter Kuran, CEO of Visual Concept Entertainment, Inc.

Monday, Sept. 16, 2002, 7 p.m.

Livermore High School Main Auditorium
600 Maple St., Livermore

Millions of images were created to record important information about nuclear testing and to document its history. Now, these images are in danger of being lost because of the properties and processing of the original film images.

See a pictorial history of Livermore's contribution as culled in Kuran's five documentaries on nuclear testing, including the award-winning "Trinity and Beyond."

Kuran's career includes work on over 250 motion pictures, including "Star Wars," Oliver Stone's "Nixon," and "Men in Black."

Free admission. Talks are suitable for anyone interested in science.

Contact: Charity Smith, 925-424-6575, smith259@llnl.gov

Lawrence Livermore National Laboratory

50 years

of science excellence

Technical Meeting Calendar

Friday
6

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
"DMS: Software Quality Enhancement via Automated Software Analysis, Modification and Generation," by Ira Baxter, Semantic Designs, Inc. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Dan Quinlan, 3-2668, or Leslie Bills, 3-8927.

Monday
9

INTEGRATED COMPUTING & COMMUNICATIONS
"FileMaker v6.0 Demonstration," by Alexei Folger and Phil Smith, File-maker. 9:30 a.m., Bldg. 361 auditorium (uncleared area). Contact: Candace Gittins, 4-4952, gittins1@llnl.gov.

Tuesday
10

CENTER FOR NON-DESTRUCTIVE EVALUATION
"Wave-Based Methods in NDE Target Imaging," by Anthony Devaney, Northeastern University. 2 p.m., Bldg. 235 Gold Room (uncleared area). Contacts: Harry Martz, 3-4269, or Sean Lehman, 3-3580.

Thursday
12

ELECTRONICS ENGINEERING
"Epitaxial Growth and Material Characterization: Material Design for Novel Electronic/Optoelectronic Devices," by Nobby P. Kobayashi (interview candidate). 9 a.m., Bldg. 153, room 2010 (uncleared area). Contact: Steve Azevedo, 2-8538.

Friday
13

ELECTRONICS ENGINEERING
"A Simple Method for Linearizing Nonlinear Spectra for Calibration," by John Wikander (interview candidate). 9:30 a.m., Bldg. 131, room 1645 (cleared area). Contact: Steve Azevedo, 2-8538.

Monday
16

COMPUTING RESOURCE CENTER
"Maximizing a Windows 2000 Networking Environment," by Rand Morimoto, Convergent Computing. 9 a.m. Bldg. 543 auditorium. Rand Morimoto is president of Convergent Computing, an industry expert and author of several books on windows networking, security, and network management, Morimoto was on the development team for Windows NT and Windows 2000 and his company has helped hundreds of orga-

nizations successfully migrate to Windows 2000. He is also a special advisor to the White House on cyber-security and cyber-terrorism.

Monday
23

ELECTRONICS ENGINEERING
"A Guide to Assessing the Value of Yes/No Forecasts," by William Briggs (interview candidate). 9:30 a.m., Bldg. 141 room 1104 (uncleared area). Contact: Steve Azevedo, 2-8538.

October
2

MATERIALS RESEARCH INSTITUTE
"Fluid Metals Near The Liquid-Gas Critical Point," By Vladimir Kozhevnikov, University of Utah. 3:30 p.m., Bldg. 219 room 163 (uncleared area). Contacts: David Young, 2-7231, or Joanna Allen, 2-0620.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov.

For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.

NEWS OF NOTE



New specialist promotes the proper fit for ergonomics

By Dale Sprouse

TID

Melanie Alexandre is out to make Laboratory employees more aware of their bodies and how to use them properly to avoid injury.

As the Lab's "Ergonomics Subject Matter Expert" in Hazards Control, Alexandre wants ergonomics to be more than just an afterthought, something that people consider after they experience joint or muscle discomfort.

"With ergonomics, little things make a big difference, but people often don't want to take actions until they are hurting," she says, adding that ergonomics is about adopting behavioral practices that are kind to the body.

Alexandre says her job — to foster Labwide collaboration and communication on ergonomics — is a reflection of the priority the Lab is placing on trying to reduce cumulative trauma injuries: back sprains resulting from improper lifting, carpal tunnel, and other hand and wrist injuries resulting from repetitive motion activities. Then there are overexertion injuries, which Alexandre says have an ergonomics linkage.

According to Alexandre, 55 percent of recorded work-related injuries and illness at the Laboratory in calendar year 2001 fell into the overexertion/cumulative trauma category. By comparison, the Bureau of Labor Statistics estimates 67 percent of all work-related illness/injuries nationwide have a cumulative trauma basis.

"We are pretty darn close to that (the BLS figure)," says Alexandre. "So ergonomics is an important issue here. We want employees to be thinking about how they work, how they use their bodies."

Alexandre became interested in ergonomics at San Jose State University, where she studied to become an occupational therapist. She did an honors project on ergonomics, which San Jose State then used to teach the subject until ergonomics became more formalized in the school's curricula.

"I felt ergonomics was a very good niche for an occupational therapist," says Alexandre. "Occupational therapy is a profession that is basically designed to help people help themselves. We are in the profession of helping people function better. And that is what ergonomics is — helping people function better."



Melanie Alexandre wants to foster Labwide collaboration and communication on ergonomics.

Alexandre worked in hospital-based occupational therapy and ergonomics programs before coming to the Laboratory. She joined the Laboratory's workforce in January, left in April on maternity leave, and returned in July. Her initial focus, she says, was "networking, getting to know what people were already doing, seeing where services can be enhanced."

She says she has found "great things" happening at the Lab in the ergonomics arena. The National Ignition Facility, for example, has a Web-based process that allows people to get ergonomic information and access ergonomic evaluation processes. Engineering has a large pool of ergonomic evaluators and an ergonomic database, as well as equipment resources so it can provide quick customer service. The Environmental Protection Department has a "very strong program" that includes training for evaluators. And the Laboratory's Ergonomics Committee is working to spread the ergonomics message and improve practices Labwide.

Now that she is well into her ergonomics work at the Laboratory, Alexandre says she has moved beyond the "information gathering stage." Her objective is to "get out in the trenches and do things."

She is working within her home directorate — Safety, Security and Environmental Protection — on several ergonomics projects. One is an ergonomics initiative that involves a database, patterned after ones in use in Engineering and EPD, that she says will be helpful in the ergonomics evaluation and equipment ordering processes.

"It is a great communication tool," she says of the database, "one that will blossom our (communication) abilities. Supervisors will be able to check on the status of their employees' ergonomic evaluations, see what follow-up recommendations are needed, and track how much they are spending on ergonomic equipment."

SSEP is also developing a guidance document that will "delineate how to handle certain ergonomic situations" — such as how to handle ergonomic equipment for employees who transfer between departments.

Meanwhile, she says, Health Services and Hazards Control have been collaborating on development of a pilot program intended to get clinicians out in the field more and working proactively with people who are in discomfort.

The Hazards Control-Health Services pilot effort, which is in its infancy, is also looking at:

- How ergonomic services can be better delivered to employees who don't work in an office environment.
- How to improve mentoring of ergonomic evaluators.
- Establishment of an ergonomics hotline that would be a one-stop shop for basic information that could serve employees, supervisors and ergonomic evaluators.

Alexandre says she is hopeful that some of the ergonomic programs being developed in SSEP could serve as a model for other Laboratory organizations.

"Even if other directorates don't adopt our programs exactly, they would have components that they could use," says Alexandre, adding "I would like to see more consistency throughout the Lab in terms of how we deliver our ergonomic services, improving ways that we communicate about ergonomics within the institution."

Women's Association opens application period for annual scholarships

Returning to the classroom after a long break is tough enough. Combining it with working full-time and possibly raising a family can be overwhelming.

The Women's Association can help with part of the burden through its annual Scholarship Program. Lab employees who are enrolled in college and continuing with their studies are encouraged to apply for one of the scholarship awards, presented annually in January.

Although the actual amount and number of recipients varies by year, LLLWA typically grants 8-12 scholarships that range in value from \$100 to \$800; these must be used in support of the education goal. Past recipients have used the money for tuition, books, parking and other related education costs. Some years, recipients can earn special named awards.

Applying for the scholarship can be done through the Website <http://www-r.llnl.gov/lllwa/scholarship.html> or by contacting Scholarship chair Joni Schuld at 2-4168 or schuld2@llnl.gov for application forms. The process takes only a few

hours and is followed by a short interview with a few members of the Scholarship Committee. Application deadline for 2002 is Friday, Oct. 18; interviews will take place in November.

Qualified applicants will be judged on the basis of their education history and transcripts, statement of their educational objectives, and the personal interview. Applicants must be employed at LLNL for at least one year, work 80 percent time or more, have completed two semesters (or the equivalent) within the last 18 months, and be a member of the Women's Association. Application for LLLWA membership can be filed with the scholarship application.

As a past recipient, Monica Navarra of the National Security Office remembers, "Earning my bachelor's degree was a special event in my life for me. Being honored as a scholarship award winner helped me realize how I was being supported by other employees at the Laboratory, as well as my family, in pursuing my career goals."

According to Schuld, "The scholarships provide not only financial assistance but also a means of encouraging and recognizing the extraordinary efforts of women and men who are juggling work, personal lives, and school to achieve an educational goal. Recipients have earned degrees in computer science, graphic arts, environmental management, human resources development and many other fields."

Funds for the Scholarship Awards program, which started in 1984, are made possible through Women's Association membership dues, direct donations, and contributions from the Director's Office and Affirmative Action and Diversity Program. To donate, contact Luisa Hansen at L-56. Any amount is welcome.

Members of the Women's Association Scholarship committee are Carol Gerich, Charlene Grandfield, Luisa Hansen, Christine Hartmann-Siantar, Celeste Matarazzo, Joni Schuld (chair), Barbara Sokoloski, Susan Springer, and Becky Springmeyer.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1997 Toyota Avalon, blue, fully loaded, leather wood interior, 95 K mi, best offer. 925-443-3396

1965 - 289 V8 Mustang.2 California owners. Rebuilt engine, only 2K miles. Transmission, engine, brakes, tires top notch shape. \$7,500 OBO. 510-818-0338

1997 - Jeep Wrangler Sport, 6cyl., Lift, Mud Terrains, Custom Bumpers, Rack, Too much to list. Smogged, ready for road or trail 12,900 or BO 209-869-0667

1996 - Dodge Intrepid, very clean, 4dr, PW,PL,PS, auto, AC, 52K mi \$5500. 209-833-1201

1991 - Honda Accord EX Coupe w/ spoiler. Teal. Moonroof. Good condition. New CD/AM/FM. A/C runs well. 149k miles. \$3000/OBO. 925-243-0686

2001 - Saturn SC2 3-door. Excellent condition, 33K mi., all the extras, ext. warranty, ppd. maint. \$12,500. 925-485-1988

1996 - Ford Explorer XLT, AWD, V8, burgandy, 6 CD changer, 110K miles, \$8,200/BO 925-443-5565

1991 - Cad Sedan deVille. Luxury black beauty, perfect leather, good running condition, cold AC, all options, Fwy. miles, \$3995, OBO. 925-447-8843

1991 - BUICK PARK AVENUE 4D, Power everything, low miles 65K, in great condition. \$3900 or BO 510-538-8732

1993 - Ford Escort,2dr,hatchback,alloy wheels,stick shift,A/C,runs well,does not pass smog.Needs tires.\$550 obo 209-239-2781

1994 - VW Passat GLX Wagon, 120K miles, Good Condition, Leather, CD Changer,etc. Asking \$6000 OBO. 925-556-1315

1971 - Torino 500 4 door. Has been well kept, mostly garaged. 102,000 miles, runs good, new tires/ front suspension. 351 Cleveland, ps, db, ac.\$2500/ offer 209-368-4286

1995 - SATURN 4-door, 5-speed, AC, cruise control, leather interior, 6 disk CD changer, new battery, new alternator, 108K miles. Excellent condition. \$3900. 925-443-7499

2000 - Honda Civic EX, 2 Dr Coup, PW, PL, Sunroof, CD/AM/FM, Custom Rims & Tires, Tinted Windows, Silver, 30k, \$13,500 209-832-2862

1996 - Honda Prelude Si, Show-room condition. Well pampered. 59,500 mi. \$11,995.00 OBO 925-829-5890

1985 - Bronco II 4wd Interior/Body good condition, new tires, brakes, differential, & steering components. Engine solid. 650-375-0771

1990 - Jeep cherokee Laredo, Power Everything, loaded, 4X4, \$4,800/O.B.O. 925-376-0316

1989 - Honda Accord,4Dr AT,165K miles,original owner,\$2000.OBO 209-518-2156

1988 - Olds Cutlass Cruiser wagon,Auto, PS,PB,AC,AM/FM/Cass,Tilt,3rd seat,luggage rack, clean,reliable,149K miles, \$1499/OBO 925-443-6621

1997 - Ford Explorer SUV, V8, AWD, Excellent condition, tires/brakes/shocks are fine, power everything, cruise, 6CD changer, privacy glass, \$10,500 925-831-9087

1987 - Buick GRAND NATIONAL, 16,000 mi. Still has original tires!. Own the FASTEST American muscle car produced at the time. Adult

owned. \$20,000 209-321-7203

1992 - Ford Explorer XLT, 75kmi, Great Condition, new R134 A/C, New 5spd, hitch, PW/PB, AM/FM/Cass, one owner - all receipts 925-240-1090

2000 - Honda Accord EXL, 2d, white, Fully loaded, tinted-windows, sunroof, cd/am/fm stereo, A/C, PW, PL, CC, PS; alarm, excellent cond 45K miles \$17,500. 510-329-7096

1995 - GMC Safari Van,Extended,8 Pass,AWD,Great for Skiing!Loaded,SLT trim, new tires, brakes, tuneup,123k miles,high book \$10,600,\$6900/B.O. 209-599-4644

1993 - Nissan Pathfinder SE 4X4, 5 spd. manual trans. new tires, runs and looks great, 175K miles, \$6500. 925-855-1921

1996 - Honda Accord EX, 2 dr coup, Silver, Automatic, Excellect Condition, Moon Roof, ABS, PW/PS/PL, 106000 mi. Great for College Student, \$8,000. 209-839-1973

1997 - Camaro Z28, 30yr. Anniv. Edition, Polo Green, 79K miles, Good Condition. 1 owner. \$9,500. or B.O. 209-832-8950

1989 - Toyota Supra, only 58K miles, sport roof, ABS, leather, power seat, all options. Original owner. \$4500 925-447-4455

1963 - Volkswagen Baja. Running, licensed, road-ready with spare fiberglass baja kit. \$1400 209-839-9921

2000 - Sienna XLE, fully loaded, leather, mint condition, 35K mi, 6 yr/75,000 Toyota Platinum extended warrenty, \$23,500 obo 925-447-0430

AUTOMOBILE ACCESSORIES

Aluminum rack for a 86 toyota short bed pick up. Should fit 84 to 88 pickups. This is a modular extruded rack with cab-over extension. \$75 209-368-4286

WHEELS, 17 inch Alum off 97 Ford Exped w/ gd tires. WHEELS, 96 VW Jetta steel w/hubcaps and NEW TIRES. Make Offer! 925-606-1078

Flowmaster cat-back exhaust, 50-series Delta-flow. Side exit before rear wheel. Sounds awesome. Like new, used only 4 months. GM ext.cab trucks. \$250 209-365-0412

BICYCLES

Burley bike trailer for single child. Supurb condition, low miles. Yellow and blue with tall safety flag. We have outgrown it. \$100. 925-606-9575

10 speed bike, ladies, 24 inches. Excellent condition. \$60. 925-648-0671

BOATS

1996 Ski Centurion Lapoint Limited. 270HP 350 C.I. 440 Hrs. White & Green Garage Kept. SS Prop, Bimini, Pole, Board rack, Stereo. 16.5K 925-753-0238

ELECTRONIC EQUIPMENT

Great for Student: Complete PC with color monitor/printer, joy stick, etc. Loaded with programs/games. \$495 209-832-9222

Pioneer VSX-5900S audio/video recevier with remote and manual, in working condition. \$50.00 209-858-4422

HP DeskJet 660C color printer for PC \$60.00. 209-599-7955

GIVEAWAY

Tomy Omnibot Robot(model 5402) needs a home. Mint condition!! Original accessories are included. Call for more details! 925-462-9075

Landscape rocks, decorative salt and pepper rocks, approx. 3-5 inch diam. FREE - you haul 925-294-8278

HOUSEHOLD

Portable diswasher, 2 yrs.old, light use, like new! Paid \$400-, asking \$200-. You haul. 925-443-4914

Table, brown formica with maple legs \$12.00, fans 2, 1 speed 22 inch box \$6.00, 3 speed fan 19 inch round \$15.00, wine rack wood 12 bottle \$8.00 925-447-4841

Chase, base color off-white w/ green/purple contemporary design \$149. Sofa, soft green with matching pillows in autumn colors \$249. Excellent cond. 209-836-9082

Trundle bed with two nearly new good quality mattresses, \$130. 925-447-0666

Black & grey office desk 59in. x 29in. Two drawers on each side. Asking \$100. Call after 4:30. 925-426-7400

Hydraulic Floor Jack. 4500lb. Lift. Mint Condition, Hardly Used.Roll Away Type. \$25. 925-373-6255

Bunk Beds for sale with mattresses. knotty pine w/walnut stain. \$200 or B.O. Dresser mahogany \$ 75 or B.O. 925-373-9050

Antiques: Beautiful Oak rocker \$85, brass bed \$85,oak plant stand (barley twist legs) \$65, oak commode \$65, porcelein butcher scale \$150 925-449-0388

Lawn Mower, self propelled, 21 inch mulch or side discharge, 3yrs old 925-240-1090

Sofa & loveseat; medium green; excellent condition. Does not fit in current home. \$350.00 OBO for both. 209-833-8616

California King Bedroom Set. (No Mattresses) Oak Finish, Great Condition. \$250.00 or Best Offer. 925-399-5044

Framed Wine Country Map of California 23 inches wide by 35 inches high \$50 925-447-8613

Genie Blue Max Automatic garage door opener. Remote control and outside key pad remote included. \$35.00 209-599-7955

Traditional style sofa and platform rocker. Excellent quality, oak trim, blue w/petite floral vine. \$350/\$150 or offer for both. 209-848-8965

Cherry wood dining tableset, w/6 chairs (cream color seat), 2 leafs, excellent condition, \$1600 925-447-0430

LOST & FOUND

Lost: Classmates from Livermore High 1972 grads. 30 year reunion Oct. 12, 2002. Contact: 925-373-8289

Mountain Bike missing from outside B132N. Black Agressor with front shocks. Please return to B132N or call me. 925-449-8783

MISCELLANEOUS

ACE Train tickets, 2 Zone, \$45.00 for all. Valued at \$70. 925-443-9466

Concrete pillar blocks (26) for building deck. Good condition. \$2.00 each. 925-426-0566

Interior door and jamb for 36-inch opening. French style with two 18-inch doors. Four panel, solid pine painted white. Excellent condition. \$40. 925-606-9575

Golf clubs, complete set (irons 2 thru SW, 1 thru 3 woods) with golf bag. \$85. 925-648-0671

2 tickets for RUSH. \$60 ea. Good seats. Chronicle Pavilion. Tues, Sept 17, 8 pm. 510-220-7630

GARAGE SALE Saturday, September 7, 320 Douma Way RIPON, 8:00 - 4:00. Entertainment center, dresser, night stand, snowboard, clothes, and more! 209-599-5071

Buck stove fireplace insert w/blower. Glass doors in excellent condition. \$250 or B.O. 925-449-7219

49ER TICKETS Upper Reserved (2) vs Washington Redskins Sun. Sept.22, also vs St.Louis Rams Sun. Oct.6 209-918-1437

Doll house with accessories. Loving Family brand doll house with furniture and accessories for all rooms. Excellent shape. \$25 925-706-2337

HUGE Garage Sale. Too many items to list incl. Christmas items! Saturday, September 7. 925 Dublin Ave. in LIVERMORE, 9:00am - 4:00pm. NO early birds. 925-373-0751

Las Vegas roundtrip air and two nights hotel for TWO people. Departs on Tuesdays. Must make reservation 60 days in advance. \$200 925-449-0611

Shop Vac, 3.25 HP, 16 gal, variable speed, also blows, VG cond, \$25. 925-447-2508

Garage Sale, Saturday, September 7, 8am to 2pm. 1923 Bluebell Drive, near Scenic. Lots of great household items and electronics. 925-443-1673

MOTORCYCLES

1997 - Harley Davidson FXDWG 8K Miles Silver and Black, Chrome, Soft Bags, Windshield, Ex Cond \$19,500 obo 209-869-6463

1999 - Yamaha 1600cc Roadstar. Good condition. 3003 miles. 2 1/4 inch drag pipes, saddle bags, windshield. \$9500.00 or b/o. After 5:00 P.M. 209-835-8343

MUSIC INSTRUMENTS

Alto sax, Buescher Aristocrat, great condition, excellent pads, good case, ready to play, cheaper than renting. \$400/BO 925-443-8442

Piano, Kimball Console, beautiful walnut finish, must see, \$1000 or best reasonable offer. 209-634-9810

Beginner student trumpet. Great condition. \$125 925-449-0388

Winter, spinet piano, good condition, \$695 925-447-0430

PETS & SUPPLIES

Black Lab Pups. 3 females, 5 males, AKC Reg., first shots, 6 weeks old, \$500. 925-373-3236

English Bulldog, 3 yrs. old, shots, neutered, very friendly & Playful. Asking \$700.00. 925-447-6471

Pet Sitting in your home. Responsible, pet-loving Lab employee will care for your animals in your home. Livermore area only please. 925-456-5345

Australian saddle, the type with horn. Used very little. \$100/offer 209-848-8965

RECREATION EQUIPMENT

Easy Glider cross country ski simu-

lator \$17.00, roller skates ladies size 8 white \$15.00 925-447-4841

Pacific Fitness Home Gym - great cond, one stack, \$500 925-240-6237

Heavy Punching Bag. Everlast,70lb. Needs Chain. Pretty Good Shape. \$30. 925-373-6255

Coleman, 2 Burner Compact Gas Camp Stove. \$30.00 925-427-0233

Snowboard Lamar 163 cm. with bindings. \$150.00. 209-599-4644

10 speed ladies bike, 24 inches. Excellent condition. \$60. 925-648-0671

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

Eastern Contra Costa - Luxury commuter bus. Pick-up in Antioch, Oakley, Brentwood, and Byron. 925-754-6622, ext. 2-7474

Manteca - Great carpool! Work hours 7 am-4 pm. Pick up/drop off at house/office. Drive 1 day/wk + 1 Friday/month. 209-823-8309, ext. 2-8669

Concord - Drive 1 day/wk + 1 day/mo, any day. Relax the rest of the time! Save money & stress. Good carpool! 925-672-6677, ext. 3-2153

Walnut Creek - Concord, Pleasant Hill new luxury vanpool has openings. Lab hours 8:00 to 4:45. 925-945-4926, ext. 2-2805

SERVICES

Wanted - Babysitter for my 4 month old daughter. 2 days per week, 8 am to 5 pm. Livermore only please. 925-455-4208

House Painting - Over 16 yrs exp. Call for free estimate. 209-956-3718

SHARED HOUSING

Fremont - Room for rent in two-bed apartment. Private bath. Includes utilities and full privileges. \$500/month. 510-440-1212

Modesto, CA - Room to Rent/House to share with pool, in beautiful College area. \$550.00 per month. 209-575-4255

TRUCKS & TRAILERS

1999 - Ford F250, turbo diesel, super cab, new brakes, 60K miles, white \$18,500/BO 925-443-5565

1991 - Dodge Dakota Club Cab, SE, V-6 3.9 Liter, 2WD, 5-Speed Manual,Tow Package, Carpet Kit, Shell,AC,PS,CC, AM/FM Cassette. Good Condition. \$4000.00 925-449-8757

2-Rail motorcycle trailer with ramp, 4 X 6, Good cond.,Asking \$400.00 or make offer 925-455-1959

1994 - Ranger XLT std cab, 2.3L, 5-spdl, 125K mi, PS, ABS, A/C,AM/FM/CD, good cond., good tires.\$4950/OBO 209-239-7888

1990 - Jeep Cherokee Laredo, Loaded, Power Everything, 4X4, \$4,800/O.B.O. 925-376-0316

1987 - Nissan pickup ex.cond. 5 speed 145K mi. smogged a ready to go. \$ 2500.00. 209-823-1901

1991 - MAZDA B2600I W/SHELL, 153K miles, gd dependable work Truck. New Clutch, Radiator. Light Blue. \$2,500 obo 209-835-9082

Like new white camper shell for full-size GMC or Chevy pickup. \$300 209-839-9921

NEWS OF NOTE



ANASTASIO

Continued from page 1

prepared directorate briefings. During the month of July, Anastasio met with more than 500 Lab employees for program and directorate presentations and to talk personally with employees about the challenges and opportunities facing them.

“I was very pleased with the discussions,” said Anastasio. “It’s clear that people are very excited about our future and they are ready to take on the challenges.”

As the Lab prepares to celebrate its 50th anniversary, Anastasio used his talk to remind employees that the Lab is in good shape and is viewed that way externally. He cited the Lab’s five R&D awards won earlier this year, the outstanding ratings for S&T and Operations on contract performance measures, and upcoming E.O. Lawrence awards, which two Lab employees will receive in the next few weeks. The Bush Administration also singled out LLNL for a major role in the war against terrorism.

“But we do have many opportunities and challenges before us,” he said. “They span all aspects of the Lab, in mission, science and technology, operations and the workforce.”

Regarding the Lab’s missions, Anastasio reminded employees that their first challenge is to meet current program commitments. “This establishes our credibility for any future endeavors.”

Though the Lab’s official role in the future Department of Homeland Security will be decided after Congress establishes the new department,



JULIE KORHUMMEL/NEWSLINE

Director Michael Anastasio said the Lab is in good shape and ready to go forward at a recent state-of-the-Lab address to employees.

Anastasio noted that the Lab is participating in the transition team. “We believe the administration is strongly interested in having our Lab play a key role,” he said. He also thanked Associate Director Wayne Shotts and the NAI Directorate for their efforts teaming across the Lab to work all the issues. “Keep it up,” he said.

In science and technology, Anastasio noted that “there are compelling opportunities before us, with a 2003 NIF ‘first light’ milestone and the 2004 planned delivery of a 100 teraflop computer — both giving

the Lab unparalleled capabilities.”

Anastasio also used his speech to announce the development of a science and technology investment strategy for the Lab — an effort that will be led by Hal Graboske. The strategy will include four areas — high-energy density physics; computations; experimental science and “embracing national opportunities.” He reviewed past decades where the Lab’s investment in key areas paid off.

“In the 1970s, it was lasers, in the 1980s it was biology and in the ’90s it was counterterrorism,” he said. “It is important for the Lab to ask what sort of investments should be made now.”

In Operations, Anastasio repeated his commitment to reduce the administrative workload for science and technology and to “get our own house in order” regarding oversight, policies and procedures.

“We have the power to untangle the spider web developed in response to external pressures,” he said. “I am challenging senior managers and employees to do something in the world you control

to make the Lab more efficient.”

Anastasio concluded his talk by reinforcing his commitment to the Lab’s workforce and to specifically implementing the recommendations that came out of the Survey Action Teams.

He will also reinstitute regular workforce reviews at a senior management level. Those reviews should begin in the next few months.

“Our employees are the heart and soul of this Lab. You are the ones who make great things happen,” he said.

INTERNAL TRANSFER OPPORTUNITIES

1968 - Ford F-350 flatbed, dually w/rack. Runs good. Excellent ranch truck. \$1000/offer 209-848-8965

VACATION RENTALS

Apache Junction, AZ - recreational vehicle space in a 5 star park. ideal for snowbird retirees. many activities \$450.00 per month 3 month minimum 925-447-4841

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Kihei, Maui - New 3 Bdrm. 2 Bath Furnished.† 5 min. walk to beach, shopping and restaurants. 2 wk. min. 30 day LLL discount.† Reserve early.(non-smoking) 925-443-1172

Arnold Cabin Furnished. Great getaway! Fish, Hunt, Swim, Shop, Wine Tasting, Ski, Hike! Call for Details 925-525-5764

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled,nicely furnished, all amenities,Park w/Lake,playground, etc. Great for Families! OFFSEASON RATES NOW! 209-599-4644

Discovery Bay - Townhouse 3bdrm/2.5 bath Freshly painted, new ammenities, Boat slip included, rear access to pool \$1400/month 510-582-6717

WANTED

Wanted small terracotta or ceramic pots for planting house plants. Prefer sizes 4 to 8 inches in diameter. Will pay 50 cents each. 916-714-9291

Whoever had the giveaway spa...if you still have it and want to get rid of it. could you please send me an email. 925-443-6489

Older Direct TV recievers,with football players on access card. 415-673-9546

Tag	Requisition	Classification	Title	Organization
CO	4726	285	Computer scientist	CAR/NAIC Division
DT	4785	200	Program leader	Defense & Nuclear Technologies
NA	4731	200	Project leader	NAI
ME	4727	249	Process engineer	Mechanical Engineering
PE	4752	249	Design manager	Plant Engineering
PE	4753	249	Structural engineer	Plant Engineering
DT	4758	270	Physicist	Defense & Nuclear Technologies
PT	4685	270	Physicist	Physics & Advanced Technologies
CO	4757	285	Computer scientist	Computing Applications & Research
CO	4759	285	Computer scientist	Computing Applications & Research
EE	4730	337.1	Engineering technical associate	Electronics Engineering
ME	4553	337.1/2	Engineering technical associate	Mechanical Engineering
ME	4554	337.1/.2	Engineering technical associate	Mechanical Engineering
CH	4763	405.3	Administrative specialist III	Chemistry & Materials Science
CH	4765	405.3	Administrative specialist III	Chemistry & Materials Science
PE	4719	405.3	Administrative specialist III	Plant Engineering
FI	4779	405.4	Administrative specialist IV	Chief Financial Officer
NA	4732	405.4	Administrative specialist IV	NAI
NA	4762	405.4	Administrative specialist IV	NAI
EP	3359	502.2/3	Scientific technologist	Environmental Protection
EP	4704	533.2/3	Mechanical technologist	Environmental Protection
ME	4711	538.3	Sr. Technical coordinator	Mechanical Engineering
SS	4768	653	Central alarm station operator	Safeguards & Security
PE	4720	811.2	Cleanroom custodian II	Plant Engineering
PE	4723	811.4	Custodian lead	Plant Engineering
PE	4686	811.5	Custodian supervisor	Plant Engineering
PE	4721	861.4	Rigger lead	Plant Engineering



THE BACK PAGE

1952

Continued from page 1

original employees will be on hand to reflect on the Laboratory during its fledgling years, as well as offer insights and anecdotes.

Panelists include Chuck Blue, Jim Hadley, Chuck Hurley, Cecilia Larsen, Chuck Leith, Duane Sewell and Louis Wouters. AD Den Fisher will moderate the panel. Bruce Tarter, associate director-at-large, will introduce the guest speakers.

“We want to involve employees in Event Week and help them understand

the esprit de corps and dedication of early employees,” said Carol Gerich, who organized “1952 Day” for the Director’s office.

Also during the day, the West Cafe will offer a 1950s-style lunch menu, including “White Castle sliders,” vanilla cokes and macaroni and cheese.

“We invite employees to get a ‘50s lunch in the West Cafeteria and celebrate 1952 Day in Bldg. 123,” Gerich said.

All employees are invited to attend the panel and a reception immediately afterward.

The “1952 Day” panel is the first celebration during Event Week.

Also on Monday, Ray Geselbracht of the Truman Library will present “Harry S. Truman and the Paradox of Atomic Energy,” at 3:30 p.m. in the Bldg. 123 auditorium. All employees are invited.

Truman was president at the time LLNL was founded, and his decisions were vital to the new Laboratory. Tarter will provide introductory remarks, setting the context for the lecture, which will include a video and slide show.

Both talks will be videotaped and will be available for employees to check out.

SCIENCE DAY

Continued from page 1

“This is a celebration of science.”

All Laboratory employees and retirees are invited to attend the daylong event. More than 400 invitations have gone out to scientists and administrators at other national laboratories, universities, the Department of Energy, Lab advisory panels and other government agencies.

In addition to the series of presentations in the Bldg. 123 auditorium that runs from 8 a.m. to 5 p.m., a poster expo with principal investigators on hand and a free lunch, will be offered from 11 a.m. to 2 p.m. in the pavilion set up adjacent to Bldg. 123.

This year’s Science Day presentations will differ from last year’s emphasis on super-



computing by highlighting four key areas: biological research, climate modeling, astrophysics and fusion. Talks will provide a historical perspective, give an overview of current research and a glimpse of future directions.

Director Mike Anastasio will introduce

the day’s agenda, along with James Decker of the DOE Office of Science, Maureen McCarthy of the National Nuclear Security Administration and John McTague from the University of California.

The Poster Expo, at the 50th Anniversary Celebration Pavilion in the West Cafeteria parking lot, presents an opportunity for one-on-one interactions with more than 60 scientists and engineers from across the Laboratory.

Karen Kline of TID, who is helping Al-Ayat organize the event, said the poster expo will include posters, video displays, demonstrations of hardware and instrumentation that showcase their recent work, and handouts.

For more information on Science Day, go to <http://ScienceDay.llnl.gov> or contact Mary Callesen (3-2810) in the Laboratory Science and Technology Office.

TRIBUTE

Continued from page 1

The ceremony, which will last approximately one hour, is by invitation only, in order to honor the more than 300 employees who were called to serve following the Sept. 11 attacks. All employees may watch the ceremony live on Lab TV Channel 2; it will be rebroadcast at noon.

The ceremony will begin with the entrance of a special Lab color guard and bagpipe performance. Anastasio will then introduce members of the Lab’s Protective Force, who will put together a special “Table of Remembrance” ceremony to honor firefighters, police officers and other rescue workers who were killed following the collapse of the World Trade Center towers.

A moment of silence will follow at approximately 8:46 a.m., to coincide with a statewide moment silence called for by Gov. Gray Davis.

Also included in the ceremony will be a 12-minute slide show recalling the attacks and the rescue and recovery efforts; recollections from Lab employees who were deployed to New York, Washington and other areas; the unveiling of a special quilt to commemorate Sept. 11; and the presentation of the flag that was raised at the Superblock following the Sept. 11 attacks. The flag will be officially retired that morning.

During the ceremony, Anastasio will take time to honor various groups of employees, including those who were deployed to assist in homeland security and counterterrorism work; support teams at the Lab; protective force officers and other emergency responders charged

with safeguarding the Lab; and employees who were called to military service to fight the war on terrorism.

The ceremony will conclude with performances by a specially assembled choir made from members of the Lab’s various employee groups.



SOLAR

Continued from page 1

determine the small difference in age between CAIs and chondrules with unprecedented precision.

“This is the first piece of evidence proving that CAIs are 2 to 3 million years older than chondrules,” Hutcheon said. “We were able to make this conclusion based on our measurements.”

CAIs and chondrules are millimeter-size

objects found in primitive meteorites. They formed when dusty regions of the solar nebula were heated to very high temperatures. The dust melted and then crystallized, forming first CAIs and then chondrules. Larger objects, like asteroids and planets, took longer to form and are about 10 to 50 million years younger than the CAIs and chondrules.

“All these objects didn’t just form in a snap,” Hutcheon said. “By determining the ages of CAIs and chondrules, we can better date asteroids and planets and learn more about the early history of the solar system.”

Newsline
UC-LLNL
PO Box 808, L-797
Livermore, CA 94551-0808